

**National Climatic Data Center**

**DATA DOCUMENTATION**

**FOR**

**DATA SET 1300 (DSI-1300)**

**Synoptic Surface Obs - USSR Teletype**

**October 29, 2003**

National Climatic Data Center  
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1. **Abstract:** The National Climatic Data Center (NCDC) has in its possession Russian Teletype Synoptic Observations from the period 1946-1958. The parameters that are covered include Temperature, Winds, Pressure, Relative Humidity, Cloud Height, Special Phenomena, Ground Temperature and Snow Depth. Data are generally available for hours 00, 03, 06, 09, 12, 15, 18 and 21. Hours 03, 09, 15 and 21 only were generally available starting 16 February 1953. Observations for all periods are in Moscow Standard Time.

2. **Element Names and Definitions:**

**Element:** Tape Deck Number  
**Record Position:** 01-04  
**Example:** 13xx

**Element:** Station Number  
**Record Position:** 05-09  
**Example:** xxxxxx

**Element:** Year  
**Record Position:** 11-12  
**Example:** xx

**Element:** Month  
**Record Position:** 13-14  
**Example:** xx

**Element:** Day  
**Record Position:** 15-16  
**Example:** xx

**Element:** Hour  
**Record Position:** 17-18  
**Example:** xx

**Element:** Length  
**Record Position:** 19-21  
**Example:** xxx

**Element:** Time  
**Sub element:** Sch.  
**Record Position:** 22  
**Sub element:** Not.  
**Record Position:** 23  
**Example:** x

**Element:** Sky Cover  
**Record Position:** 24  
**Example:** ix

**Element:** Winds  
**Sub element:** Direction  
**Record Position:** 25-27

**Example:** ixx  
**Sub element:** Speed  
**Record Position:** 28-32  
**Example:** ixxx

**Element:** Visibility  
**Record Position:** 33-35  
**Example:** ixx

**Element:** Weather  
**Sub element:** Present  
**Record Position:** 36-39  
**Example:** ixxx  
**Sub element:** Past  
**Record Position:** 40-41  
**Example:** ix

**Element:** Pressure  
**Record Position:** 42-45  
**Example:** ixxx

**Element:** Temperature  
**Record Position:** 46-49  
**Example:** ixxx

**Element:** Clouds  
**Sub element:** Low  
**Record Position:** 51-53  
**Example:** xxx  
**Sub element:** Middle  
**Record Position:** 54  
**Example:** x  
**Sub element:** High  
**Record Position:** 55  
**Example:** x

**Element:** Dew Point  
**Record Position:** 56-57  
**Example:** xx

**Element:** Relative Humidity  
**Record Position:** 58-60  
**Example:** ixx

**Element:** Temperature  
**Sub element:** Max  
**Record Position:** 61-63  
**Example:** xxx  
**Sub element:** Min  
**Record Position:** 64-66  
**Example:** xxx

#### Supplemental Data

**Element:** Pressure Tendency  
**Sub element:** Characteristic  
**Record Position:** 67-68  
**Example:** ix  
**Sub element:** Amount  
**Record Position:** 69-71  
**Example:** ixx

**Element:** Precipitation Amount  
**Record Position:** 72-76  
**Example:** ixxxx

**Element:** Significant Clouds  
**Sub element:** Amount  
**Record Position:** 77-78  
**Example:** ix  
**Sub element:** Type  
**Record Position:** 79-80  
**Example:** ix  
**Sub element:** Height  
**Record Position:** 81-83  
**Example:** ixx  
**Sub element:** Amount  
**Record Position:** 84-85  
**Sub element:** Type  
**Record Position:** 86-87  
**Example:** ix  
**Sub element:** Height  
**Record Position:** 88-90  
**Example:** ixx

**Element:** Special Phenomena  
**Sub element:** 1<sup>st</sup> group  
**Record Position:** 91-96  
**Example:** i9xxxx  
**Sub element:** 2<sup>nd</sup> group  
**Record Position:** 97-102  
**Example:** i9xxxx  
**Sub element:** 3<sup>rd</sup> group  
**Record Position:** 103-108  
**Example:** i9xxxx

**Element:** Temperature of Ground  
**Record Position:** 109-111  
**Example:** ixx

**Element:** State of Ground  
**Record Position:** 112-113  
**Example:** ix

**Element:** Snow Depth  
**Record Position:** 114-115  
**Example:** ix

**Element:** Tenths Value  
**Sub element:** Sky Cover  
**Record Position:** 116-117  
**Example:** ix  
**Sub element:** Low Cloud  
**Record Position:** 118-119  
**Example:** ix

**Element:** State of Sea  
**Record Position:** 120-121  
**Example:** ix

**Element:** Visibility Seaward  
**Record Position:** 122-123  
**Example:** ix

**Note:** Scale "Z" denotes more than one scale was used in the conversion of an element. See remarks below of for details of individual elements.

**Remarks:**

Field 101: Reported by scale 0 through Dec 1949 and by scale 5 thereafter.  
Field 102: Reported by scale 0 through Dec 1949 and by scale 5 thereafter.  
Field 103: Reported by scale 0 through Dec 1949 and by scale B thereafter.  
Field 104: Reported by scale 0 through Dec 1949: by scale 2 through Jan 1955 and by scale 4 thereafter.  
Field 105: Reported by scale 5 through Dec 1949 and by scale A thereafter.  
Field 109: Reported by scale 0 through Dec 1949 and by scale 6 thereafter.  
Field 116: Reported by scale 1 through Dec 1949, by scale 7 Jan 1950 through 15 Feb 1953, and by scale 5 thereafter.  
Field 117 & 118: Reported for land station but not coastal station. Reported originally in supplemental data groups. In 1946-15 Feb 1953, maximum temperatures generally at 12, 15, 18 or 21h MST., minimum generally at 00, 03, 06, 09h MST, each plus or minus one hour, but they may have been reported at the other hours and distinction between maximum and minimum temperatures must be made on a station-hour basis. Beginning 16 Feb 1953 and later, maximum from 07 to 19h LST is reported at the synoptic observation or immediately following 19h LST (usually 15 or 21 MST). Minimum from 19h LST of preceding day to 07h of current day is reported at the synoptic observation immediately following 07h LST (usually 03 or 09h MST). Data is inconsistently reported especially the earlier periods, and frequently missing.

3. **Start Date:** 19460101
4. **Stop Date:** 19581231
5. **Coverage:** Russia (Former USSR) and Korea.
  - a. Southernmost Latitude: 08S
  - b. Northernmost Latitude: 75N
  - c. Westernmost Longitude: 60W
  - d. Easternmost Longitude: 140E
6. **How to Order Data:**

Ask NCDC's Climate Services about costs of obtaining this data set.  
Phone 828-271-4800  
Fax 828-271-4876  
E-mail: [NCDC.Orders@noaa.gov](mailto:NCDC.Orders@noaa.gov)

7. **Archiving Data Center:**

National Climatic Data Center/NCDC  
Federal Building  
151 Patton Avenue  
Asheville, NC 28801-5001  
Phone 828-271-4800

8. **Technical Contact:**

National Climatic Data Center/NCDC  
Federal Building  
151 Patton Avenue  
Asheville, NC 28801-5001  
Phone: 828-271-4800

9. **Known Uncorrected Problems:**

10. **Quality Statement:**

11. **Essential Companion Datasets:** None.

12. **References:** None listed in original documentation.